

## VI. AVIATION LIFE SUPPORT EQUIPMENT (ALSE)

### 1. Administration Management

#### a. Appointment Orders

(1) Is the Aviation Life Support Officer (ALSO) appointed on unit orders? (*AR 95-1, Chap. 8, pg. 31, para. 8-1i*) **P / F / NA**

(2) Is an Aviation Life Support Technician (ALST) appointed to assist, advise and represent the ALSO in all matters pertaining to ALSE? (*AR 95-1, Chap. 8, pg. 31, para. 8-1j*) **P / F / NA**

#### b. Council Meetings

(1) Is the ALSO a member of the unit aviation safety council? (*AR 95-1, pg. 31, para. 8-1i(8)*) **P / F / NA**

(2) Is the ALST a member of the enlisted aviation safety council? (*AR 95-1, pg. 31, para. 8-1j(4)*) **P / F / NA**

(3) Does the ALST participate as a member of the local ALSE steering council? (*AR 95-1, pg. 31, para. 8-j(5)*) **P / F / NA**

#### c. Standing Operating Procedure (SOP)

(1) Has the ALSO established an SOP for current operations? (*FM 1-508, pg. 2-4, para. 2-15(4)*) **P / F / NA**

(1) Is the ALSO maintaining the SOP in support of current operations? (*FM 1-508, pg. 2-4, para. 2-15(4)*) **P / F / NA**

#### d. Deleted (for now)

#### e. Forms and Records

(1) Are material condition tags and labels filled out using blue or black waterproof ink? (*DA Pam 738-751, pg. 74, para. 3-20b(1)*) **P / F / NA**

(2) Are the ALSO/ALST on orders to sign off material condition tags after inspections are performed? (*TM 1-1500-204-23-1, pg. 11-17, para. 11-19j*) **P / F / NA**

#### f. Deficiency Reports

(1) When the unit identifies the need for a Product Quality Deficiency Report (PQDR) or Equipment Improvement Recommendation (EIR) are they being submitted? (*AR 750-1, para. 4-42b*) **P / F / NA**

When submitted, are the ALSE inspectors:

- (a) Maintaining a PQDR file? (*FM 3-04.500, pg. 8-9, para. 8-27*) **P / F / NA**
- (b) Assigning PQDR control numbers? (*FM 3-04.500, pg. 8-9, para. 8-27*) **P / F / NA**

- (c) Establishing a PQDR log? *(FM 3-04.500, pg. 8-9, para. 8-27)* **P / F / NA**
- (d) Checking PQDR's for accuracy? *(FM 3-04.500, pg. 8-9, para. 8-27)* **P / F / NA**
- (e) Ensure that all applicable forms and records accompany the exhibit? *(DA Pam 738-751, pg. 64, para. 3-3)* **P / F / NA**
- (f) Review TB 43-0001 prior to submitting the PQDR? *(FM 3-04.500, pg. 8-9, para. 8-27)* **P / F / NA**

**g. Publications / Shop Library**

- (1) Does each shop maintain a complete, up-to-date set of technical publications for all supported equipment? *(FM 1-508, pg. 2-11, para. 2-28)* **P / F / NA**
- (2) Are publications filed by type , then numerically-alphabetically? *(DA Pam 25-40, pg. 160, para. E-13a)* **P / F / NA**
- (3) Are ALSOs and ALSTs reviewing publication files (technical libraries) within the shop periodically but not less than quarterly? *(FM 1-508, pg. 2-11, para. 2-28)* **P / F / NA**
- (4) Are changes to publications posted correctly? *(DA Pam 25-40, pgs. 150 thru 162, App. E)* **P / F / NA**
- (5) Is the TM familiarization chart being maintained? *(FM 3-04.500, pg. 8-6, para. 8-18)* **P / F / NA**

**2. Training**

**a. ALSE Training**

- (1) Is the ALST school trained, and did the U.S. Army Aviation Center (USAAVNC) approve the course of instruction? *(TM 1-1500-204-23-1, pg. 11-1, para. 11-4)* **P / F / NA**
- (2) Does the unit have proper ALSE and have unit personnel received proper training commensurate with the mission and operational environment? *(AR 95-1, pg. 30, para. 8-1c)* **P / F / NA**
- (3) Does the ALSO submit to the unit training officer all ALSE training requirements? *(TM 1-1500-204-23-1, pg. 11-1, para. 11-2)* **P / F / NA**
- (4) Is clothing or equipment that has been submersed in salt water or bleach treated water restricted from being used except for "training use only"? *(TM 1-1500-24-23-1, pg. 11-2, para. 11-12)* **P / F / NA**
- (5) Are sleeping bags that have been used kept for training purposes only? *(TM 1-1500-204-23-1, pg. 11-2, para. 11-12)* **P / F / NA**
- (6) Are Aircrew personnel adequately trained on all ALSE ? *(FM 1-508, pg. 7-0, para. 7-1)* **P / F / NA**

### **b. ALSE Survival Training**

(1) Does the unit have a training program for all crewmembers who engage in regular and frequent flights in the use of survival equipment? (*FM 1-508, pgs. 7-0 – 7-1, Chap. 7*)

**P / F / NA**

(2) Does the ASO monitor unit ALSE and related survival training programs? (*AR 385-95, pg. 5, para. 1-6c (18)*)

**P / F / NA**

(3) Is the ALSO ensuring personnel who conduct survival training are competent in all aspects of the training? (*AR 95-1, pg. 30, para. 8-1i(3)*)

**P / F / NA**

(4) Does the Commander ensure training of aircrew personnel in the proper operation, use and operator maintenance of survival equipment prior to initial flight and at least once annually? (*AR 95-1, pg. 33, para. 8-15*)

**P / F / NA**

## **3. Equipment Inspections**

### **a. Aircraft Modular Survival System (AMSS) Kits**

(1) Are the minimum mandatory items, for the AMSS included in the survival kit? (*AR 95-1, CTA 50-900, TM 1-1680-354-23&P, pg. 1-8, Table 1-2*)

**P / F / NA**

(2) Are all AMSS kits inspected prior to issue and every 360 days + or – 6 days as required? (*TM 55-1680-354-23&P, pg. 2-6, para. 2.8.2*)

**P / F / NA**

(3) Are AMSS kits located in the aircraft according to aircraft type or SOP? (*TM 1-1680-354-23&P, pg. 1-6, para. 1.10.2*)

**P / F / NA**

(4) Does the location of the AMSS kits on the aircraft agree with the weight and balance forms? (*DA Pam 738-751, pg. 13, para. 1-25f*)

**P / F / NA**

(5) Are items inside the AMSS, which may possibly leak, corrode or spoil vacuum sealed? (*TM 1-1680-354-23&P, Chap. 2, pg. 2-1*)

**P / F / NA**

(6) Are the lot numbers for the distress signals stored in the AMSS entered on the reverse side of DD Form 1574 (yellow serviceable tag) to facilitate checking numbers? (*TM 1-1680-354-23&P, pg. 1-1, para. 1.6.1 combustible materials*)

**P / F / NA**

(7) Are ALSE items overdue inspection properly tagged and identified as being overdue inspection? (*DA Pam 738-751, pg. 74, para. 3-20b(1)*)

**P / F / NA**

### **b. Survival Vests**

(1) Are pressure sensitive labels used on first aid kits at a point adjacent to the opening of the zip lock bag? (*TM 55-1680-317-23&P, pg. 2-71, para. b.4*)

**P / F / NA**

(2) Are components of the survival vest stored in their proper pockets? (*TM 55-1680-317-23&P, TM 55-1680-351-10*)

**P / F / NA**

(3) Is a small inspection label, with the battery replacement and inspection date placed across side of the light? *(TM 55-1680-322-12, pg. 8, para. 14a)* **P / F / NA**

(4) Are all critical items attached to the vest with nylon cord i.e. mirror, strobe, flares, etc? *(TM 55-1680-317-23&P, pg. 2-20, Table 2-1) Note: TM does not list critical items, critical items are at ALSE technicians discretion* **P / F / NA**

### **c. Survival Radios**

(1) Are the AN/PRC-90-2 survival radios inspected by AVUM every 30 days? *(TM 11-5820-800-13&P, pg. 4-5, para. 4-9)* **P / F / NA**

(2) Are the AN/PRC-90-2 survival radios inspected by AVIM every 120 days? *(TM 11-5820-800-13&P, pg. 4-5, para. 4-9)* **P / F / NA**

(3) Are the AN/PRC-112 survival radios inspected by AVIM annually? *(TM 11-5820-1037-13&P, pg. 4-2, para. 4-6)* **P / F / NA**

(4) Is the unit properly disposing used/depleted lithium sulfur dioxide batteries? *(TM 11-5820-1037-13&P, Appendix G, pg. G-6)* **P / F / NA**

(5) Is a Class D fire extinguisher, NSN 4210-01-303-3999, posted near lithium sulfur dioxide battery storage and disposal areas for PRC-112 radios (BA-5112/U)? *(TM 11-5820-1037-13&P, pg. a)* **P / F / NA**

(6) Is the AVIM unit attaching the appropriate material condition tag to the survival radio prior to returning them to the owning unit? *(DA Pam 738-751, pg. 74, para. 3-20(2))* **P / F / NA**

(7) Is a DA Form 2408-23 maintained and filled out correctly on all assigned survival radios? *(DA Pam 738-751, pg. 218, para. 5-7)* **P / F / NA**

### **d. HGU-56/P & IHADSS Flight Helmets**

(1) Is the fitting and use of ALSE by aircrew personnel monitored by flight surgeons and aeromedical advisors? *(AR 95-1, pg. 30, para. 8-1 g (3))* **P / F / NA**

(2) Are deficiencies, shortcomings and corrective actions properly recorded on DA Form 2408-22? *(TM 1-8415-216-12&P, pg. 4-2, para. 4-7c)* **P / F / NA**

(3) Are helmets marked with the flight crewmember's name to assist in the ALSS retrieval program? *(DA Pam 385-40, pg. 9, para. 2-4h)* **P / F / NA**

(4) Are issued helmets inspected every 120 days? *(TM 1-8415-216-12&P, pg. 4-2, para. 4-7a)* **P / F / NA**

(5) Are HDU receiver alignment checks conducted every 120 days? *(TM 9-1270-233-23&P, Chap. 2, para. 2-3-2)* **P / F / NA**

### **e. ANVIS Visors**

(1) Are the ANVIS mount visors that are attached to the flight helmet have a continuity test conducted every 120 days? *(TM 11-5855-263-10)* **P / F / NA**

(2) When attached to the aircrew members flight helmet is the ANVIS 6 mount continuity inspection properly annotated on the DA Form 2408-22? *(DA Pam 738-751, pg. 218, para. 5-6(6))* **P / F / NA**

(3) Are ANVIS visor/mount(s) not in use tagged? *(DA Pam 738-751, pg. 74, para. 3-20(2))*  
*Note: DA Form 2408-22 is not required for each additional visor/mount on hand* **P / F / NA**

(4) Have ALSS personnel received AVUM/AVIM ANVIS maintenance training and is it documented before performing ANVIS visor continuity checks? *(IAW Night Vision Goggle ASAM GEN-03-ASAM-03, para. 7.7.2.3 NOTE)* **P / F / NA**

#### **f. Flotation Equipment**

(1) Are CO2 cylinders larger than 2 inches in diameter and 2 feet in length hydrostatic tested? *(TM 5-4220-202-14, Chap. 8, para. 8-1, note)* **P / F / NA**

(2) Are 5% of LPU-10/P life preservers functionally tested? *(TM 5-4220-202-14, Chap. 5, para. 5-18c)* **P / F / NA**

(3) Are life preservers given a periodic inspection at the initial installation and at intervals not to exceed 1 year + or – 10 days of established interval. *(TM 5-4220-202-14, pg. 5-57, para. 5-18.b)* **P / F / NA**

(4) Is separate DA Form 2408-21 used for overwater survival kits? *(DA Pam 738-751, pg. 128-129, fig. 3-12)* **P / F / NA**

(5) Does the using unit maintain records for all assigned flotation equipment? *(DA Pam 738-751, pg. 262, table D-1)* **P / F / NA**

(6) Are leakage tests performed on the LRU-18/U life raft every 360 days + or – 6 days? *(TM 1-1680-354-23&P, pg. 4-2, para. 4.5.2 (b))* **P / F / NA**

(7) Are LRU-18/U life raft functional tests performed every third 120 days + or – 10 days? *(TM 1-4220-250-12&P, pg. 4-11, Note)* **P / F / NA**

(8) Is all flotation training equipment marked “For Training Only”? *(TM 1-1500-204-23-1, pg. 11-2, para. 11-12)* **P / F / NA**

(9) Are all E-2B or LRU-1/P life raft assemblies properly marked IAW table 5-7 and 5-8? *(TM 55-4220-202-14, pg. 5-16, table 5-7, 5-8, 5-11, 5-12)* **P / F / NA**

#### **g. ALSE Shop**

(1) Is the area within the ALSE shop IAW Army safety regulations, i.e. no smoking signs, exit signs, etc? *(TM 1-1500-204-23-1, pg. 11-1, para. 11-3)* **P / F / NA**

(2) Does the ALSE shop contain the following to accomplish the mission: CD-ROM, desk and chair, bookcase, file cabinet, library, visual boards, blank forms, and a computer with a printer? *(TM 1-1500-204-23-1, pg. 11-1, para. 11-6)* **P / F / NA**

(3) Is loitering of personnel in the ALSE shop strictly prohibited? *(TM 1-1500-204-23-1, pg. 11-2, para. 11-8)* **P / F / NA**

(4) Does the shop contain not less than 1,000 square feet of usable area that is environmentally controlled within a range of 60 degrees F (15.6 degrees C) to 75 degrees F (23.8 degrees C) and have a potable water source? *(TM 1-1500-204-23-1, pg. 11-2, para. 11-7)* **P / F / NA**

(5) Does the ALSE shop have an adequate work area, storage area and fitting area? *(TM 1-1500-204-23-1, pg. 11-2, para. 11-8)* **P / F / NA**

(6) Does the ALSE maintenance area provide adequate, clean and well-lighted work areas with proper storage, shelving and security provisions? *(AR 95-1, pg. 33, para. 8-18a)* **P / F / NA**

(7) Does the ALSE shop have appropriate fire extinguishers on hand? *(TM 1-1500-204-23-1, pg. 11-1, para. 11-3)* **P / F / NA**

(8) Are Class C, type 3 or 4 (according to local fire policies) explosives signs posted on the ALSE door, on each corner of the building and on the cabinet where pyrotechnics are stored? *(DA Pam 385-64, pg. 14, para. 3-15)* **P / F / NA**

(9) Have preventive steps been taken to protect equipment from damage caused by dirt, dust, dampness, fire, insects, rodents, direct sunlight and other foreign material? *(FM 1-508, pg. 3-0, para. 3-1)* **P / F / NA**

(10) Are workbenches smooth and free from splinters, sharp projections, oil stains and so forth? *(AR 95-1, pg. 33, para. 8-18(c))* **P / F / NA**

(11) Are storage areas with abrasive characteristics covered with a suitable covering before storing ALSE? *(FM 1-508, pg. 3-1, para. 3-5)* **P / F / NA**

#### **h. Aviation Life Support Equipment**

(1) Are inspection intervals complied with? *(FM 1-508, pg. 2-6, para. 2-22)* **P / F / NA**

(2) Do ALSE technicians ensure that all ALSE is maintained to a high state of readiness through inspecting, cleaning, fitting, testing, adjusting and repairing? *(AR 95-1, pg. 31, para. 8-1j(2))* **P / F / NA**

(2) Does the ALSE shop have the required serviceable tools? *(FM 1-508, pg. 3-1, para. 3-8, App. C)* **P / F / NA**

### **4. Supply**

#### **a. ALSE Supply**

(1) Has the commander identified funds for maintaining and replacing ALSE? *(AR 95-1, pg. 30, para. 8-1e, FM 1-508, pg. 2-4, para. 2-18)* **P / F / NA**

(2) Has a bench stock list been established with all essential elements of data as required? (AR 710-2, pg. 67, para. 4-16c(1)) **P / F / NA**

(3) Are bench stock replenishment tags, DA Form 1300-4, used with all of the essential elements of data as required? (AR 710-2, pg. 67, para. 4-16 c(2)) **P / F / NA**

(4) Is the bench stock list reviewed/approved by the maintenance officer semi-annually? (AR 710-2, pg. 67, para. 4-16 f) **P / F / NA**

(5) Is a reconciliation conducted on a quarterly basis to ensure proper status of parts ordered? (AR 710-2, pg. 71, para. 4-29c(3)) **P / F / NA**

(6) Do all items on the bench stock list qualify to be bench stock? (AR 710-2, pg. 67, para. 4-16e) **P / F / NA**

**b. Temporary Storage of ALSE**

(1) Are AMSS kits and vests that are placed in storage inspected and repaired if needed? (TM 1-1500-204-23-1, pg. 11-2, para. 11-13a) **P / F / NA**

(2) Have all pyrotechnics, i.e. matches, flares, fuel, etc., been removed from kits and vests prior to storage? (TM 1-1500-204-23-1, pg. 11-2, para. 11-13a) **P / F / NA**

(3) Have all AMSS kits been appropriately tagged and does the tag reflect contents that have been removed? (TM 1-1500-204-23-1, pg. 11-2, para. 11-13a) **P / F / NA**

(4) Has the signal kit, personnel distress been removed from the survival vest? (TM 1-1500-204-23-1, pg. 11-3, para. 11-13b) **P / F / NA**

(5) Has the radio been removed from the vest and is the battery stored properly? (TM 1-1500-204-23-1, pg. 11-3, para. 11-13b) **P / F / NA**

(6) Is the light marker, distress and batteries removed from the survival vests? (TM 1-1500-204-23-1, pg. 11-3, para. 11-13b) **P / F / NA**

(7) Are the survival vests tagged appropriately and hung on a hanger for storage and are the items removed from the vest annotated on the tag? (TM 1-1500-204-23-1, pg. 11-3, para. 11-13b) **P / F / NA**

(8) Are pyrotechnics removed from life raft assemblies prior to storage? (TM 5-4220-202-14, pg. 3-1, para. 3-2.2) **P / F / NA**

(9) Are life rafts prevented from being stored above or close to heat sources? (TM 5-4220-202-14, pg. 3-1, para. 3-2.2) **P / F / NA**

(10) Is all newly assigned ALSE equipment inspected upon receipt and prior to issue? (TM 1-1500-204-23-1, Chap. 11, pg. 11-4) **P / F / NA**

(11) Are serviceable, unserviceable and condemned equipment stored separately and tagged with the appropriate material condition tag? (*DA Pam 738-751, pg. 80, para. 3-37*) **P / F / NA**

(12) Are medical kits inspected according to the appropriate publications? (*TM 1-1500-204-23-1, pg. 11-14, para. f(1)*) **P / F / NA**

(13) Has an SOP for all explosives operations been developed to ensure workers have the information necessary to perform their tasks safely? (*DA Pam 385-64, pg. 2, para. 2-3a*) **P / F / NA**

### **c. Flight Clothing**

(1) Is flight clothing inspected, repaired and cleaned IAW the appropriate TM? (*TM 10-8400-202-13, Section 3*) **P / F / NA**

(2) Are crewmembers adequately cleaning their assigned flight clothing? (*TM 10-8400-202-13, Section 4, para. 4-1*) **P / F / NA**

(3) Is flight clothing turned in for direct exchange when unserviceable? (*TM 10-8400-201-23, Table, 1-8, SMR codes, pg. 1-21*) **P / F / NA**

(4) Is the following Army approved clothing and equipment worn by all crewmembers when performing crew duties: leather boots, flight helmets, flight suits, flight gloves, cotton, wool or nomex underwear and identification tags? (*AR 95-1, pg. 32, para. 8-9*) **P / F / NA**

### **d. Equipment Accountability**

Does each aviator or crewmember that is assigned property have a hand-receipt, DA Form 2062? (*DA Pam 710-2-1, para. 6-2e*) **P / F / NA**

## **REFERENCES:**

AR 25-400-2	18 Mar 03
AR 95-1	01 Sep 97
AR 385-95	10 Dec 99
AR 710-2	31 Oct 97
AR 750-1	01 Aug 94, Chg 1



1 July 2003

DA Pam 25-40	30 Apr 02
DA Pam 385-64	28 Nov 97, Chg 1
DA Pam 710-2-1	31 Dec 97
DA Pam 738-751	15 Mar 99
TM 1-1500-204-23-1	31 Jul 92, Chg 3
TM 1-1680-354-23&P	31 Aug 94, Chg 3
TM 1-1680-360-12	01 Mar 98, Chg 5
TM 1-4220-250-12&P	30 Jun 93, Chg 1
TM 1-8415-216-12&P	13 Dec 96, Chg 2
TM 5-4220-202-14	01 Apr 86, Chg 15
TM 9-1270-233-23&P	15 Dec 88, Chg 16
TM 10-8400-201-23	07 May 90, Chg 6
TM 10-8400-202-13	15 Oct 72, Chg 20
TM 11-5820-800-13&P	05 Mar 85, Chg 2
TM 11-5820-1037-13&P	15 May 93, Chg 1
TM 55-1660-245-13	01 Aug 81, Chg 20
TM 55-1680-317-23&P	26 Mar 87, Chg 9
TM 55-1680-322-12	15 Jun 87, Chg 3
FM 1-508	01 Mar 00
FM 3-04.500	26 Sep 00
EM 0001	01 Jan 03
CTA 50-900	01 Sep 94, Chg 1
GEN-03-ASAM-03	19 Jun 03